

**NATIONAL PHASE  
UTILITY APPLICATION**  
**Transmittal to the (DO/EO/US)**  
**Under 35 USC 371**

Attorney Docket No.: PLOUG5.001A PC  
First Named Inventor: Søren Kragh  
Int'l Application No.: PCT/DK2004/000395  
Int'l Filing Date: June 10, 2004  
Priority Date Claimed: June 12, 2003  
Title: OPTICAL AMPLIFICATION IN MINIATURIZED  
POLYMER CAVITY RESONATORS  
Express Mail Label No.: EV 466893707 US

**Direct all correspondence to Customer No.: 20995**

Date: December 9, 2005  
Page 1 of 2

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United States Patent and Trademark Office  
P.O. Box 1450  
Alexandria VA 22313-1450

The following enclosures are transmitted herewith to be filed in the patent application of:

**Inventors:**

1. Søren Kragh
2. Anders Kristensen
3. Aric Menon

**APPLICATION ELEMENTS:**

- (X) This is a FIRST submission of items concerning a filing under 35 U.S.C. § 371.
- (X) A copy of the International Application as filed (35 U.S.C. § 371(c)(2)) has been communicated by the International Bureau.
  - (X) PCT/IB/308 enclosed.
- (X) An English translation of the International Application as filed is not required.
- (X) Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. § 371(c)(3)) are attached hereto.

**OTHER APPLICATION PARTS:**

- (X) Preliminary Amendment in 9 pages.
- (X) A copy of the published PCT application WO 2004/112204 A2.
- (X) Return prepaid postcard.

<b>NATIONAL PHASE UTILITY APPLICATION</b>  <b>Transmittal to the (DO/EO/US)</b> <b>Under 35 USC 371</b>	Attorney Docket No.: <b>IA99 Rec'd PCT/PTO 09 DEC 2005</b> First Named Inventor: Søren Kragh Int'l Application No.: PCT/DK2004/000395 Int'l Filing Date: June 10, 2004 Priority Date Claimed: June 12, 2003 Title: OPTICAL AMPLIFICATION IN MINIATURIZED POLYMER CAVITY RESONATORS Express Mail Label No.: EV 466893707 US
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Page 2 of 2

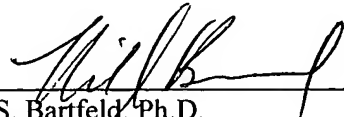
**FILING FEES:**

The present application qualifies for Small Entity Status under 37 CFR 1.27.

FEE CALCULATION			
FEE TYPE & DETERMINATION	SMALL FEE	CALCULATION	TOTAL
Basic Filing Fee under 1.492(a)	2631 (\$150)		\$150
Search Fee under 1.492(b) (enter one in TOTAL column)			
(1) USPTO was ISA/IPEA & claims satisfy Art. 33 (1)-(4)	2640 (\$0)		
(2) USPTO was the ISA (noncompliant claims)	2641 (\$50)		\$250
(3) Foreign Search Report Enclosed	2642 (\$200)		
(4) No Search Report Enclosed	2632 (\$250)		
Examination Fee under 1.492(c) (enter one in TOTAL column)			
(1) USPTO was ISA/IPEA & claims satisfy Art. 33 (1)-(4)	2643 (\$0)		\$100
(2) Non US IPEA or Noncompliant Claims	2633 (\$100)		
Excess Claims	35 - 20 = 15	2615 (\$25)	15 x 25 = \$375
Excess Ind. Claims	4 - 3 = 1	2614 (\$100)	1 x 100 = \$100
Multiple Dep. Claim		2616 (\$180)	\$180
<b>TOTAL FEE DUE</b>			<b>\$1,155</b>
<b>TOTAL FEE PAID (If Different Than Fee Due)</b>			<b>\$</b>

(X) A check in the amount of **\$1,155** to cover the Total Fee Due is enclosed.

The Commissioner is hereby authorized to charge any additional fees which may be required, now or in the future, or credit any overpayment to Account No. 11-1410.

  
 \_\_\_\_\_  
 Neil S. Bartfeld, Ph.D.  
 Registration No. 39,901  
 Agent of Record  
 Customer No. 20,995  
 (619) 235-8550

# Knobbe Martens Olson & Bear LLP

Intellectual Property Law

10/560093

2040 Main Street  
Fourteenth Floor  
Irvine, CA 92614  
Tel 949-760-0404  
Fax 949-760-9502  
www.kmob.com

IAP9 Rec'd PCT/PTO 09 DEC 2005

Neil S. Bartfeld, Ph.D.  
Patent Scientist  
619-525-8312  
neil.bartfeld@kmob.com

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P.O. Box 1450  
Alexandria, VA 22313-1450

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Attorney Docket No. : PLOUG5.001APC  
Applicant(s) : Kragh et al.  
For : OPTICAL AMPLIFICATION IN  
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RESONATORS  
Agent : Neil S. Bartfeld, Ph.D.  
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Date of Deposit : December 9, 2005

The following documents are hereby placed into an Express Mail envelope bearing the number indicated above, which envelope is being deposited today with the U.S. Postal Service as Express Mail:

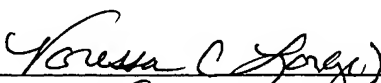
Transmittal letter; Preliminary Amendment in 9 pages; Check(s) for Filing Fee(s); Return Prepaid Postcard; a copy of PCT/IB/308; a copy of Article 19 claim amendments; a copy of the published PCT application WO 2004/112204 A2.

The envelope, with the enclosures listed above, is addressed the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

This submission is being made in compliance with 37 CFR 1.10.

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Name: Vanessa C. Dwyer  
Docketing Agent

San Diego  
619-235-8550

San Francisco  
415-954-4114

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Riverside  
951-781-9231

San Luis Obispo  
805-547-5580